

Application No. 09/359,809
Amendment dated June 10, 2004
Response to May 14, 2004 Office communication

Amendments to the claims:

The listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-72 (canceled without prejudice of disclaimer)

Claim 73 (new): A process for manufacturing a lubricant composition comprising forming a dispersion comprising a superabsorbent polymer and a material for decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water.

Claim 74 (new): A lubricant composition of matter comprising a product produced by the process of forming a dispersion comprising a superabsorbent polymer and a material for decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water.

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Claim 75 (new): The lubricant composition of claim 74 wherein said material for decreasing friction comprises a petroleum oil lubricant or grease thereof, and wherein said composition optionally comprises a lubricant additive.

Claim 76 (new): A lubricant composition of matter comprising a product produced by the process of forming a mixture comprising a superabsorbent polymer and a material for decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water and wherein said material for decreasing friction comprises a solid lubricant comprising an inorganic compound, carbon or metal that provides barrier-layer lubrication, or mixtures thereof, and wherein said composition optionally comprises a lubricant additive.

Claim 77 (new): The lubricant composition of claim 76, wherein said solid lubricant comprises, molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, mica, boron nitride, silver sulfate, cadmium chloride, cadmium iodide, cadmium oxide, borax, basic white lead, lead carbonate, lead monoxide, lead iodide, asbestos, talc, zinc oxide, carbon, graphite, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, or the Group VIII noble metals or mixtures thereof.

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Claim 78 (new): The lubricant composition of claim 74 wherein said material for decreasing friction comprises a solid organic lubricant, and wherein said composition optionally comprises a lubricant additive.

Claim 79 (new): The lubricant composition of claim 78, wherein said solid organic lubricant comprises a fluoroalkylene homopolymer or copolymer, a lower alkylene polyolefin homopolymer or co-polymer, a paraffinic hydrocarbon wax, phenanthrene, copper phthalocyanine, or mixtures thereof.

Claim 80 (new): A lubricant composition of matter comprising a product produced by the process of forming a mixture comprising a superabsorbent polymer and a material for decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water, and wherein said material for decreasing friction comprises water containing a lubricant additive.

Claim 81 (new): A lubricant composition of matter comprising a product produced by the process of forming a mixture comprising a superabsorbent polymer and a material for decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water, and wherein said material for decreasing

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friction comprises an oil or greases thereof and water, and wherein said composition optionally comprises a lubricant additive.

Claim 82 (new): A lubricant composition of matter comprising a product produced by the process of forming a mixture comprising a superabsorbent polymer and a material for decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water, wherein said material for decreasing friction comprises a solid lubricant and water, and wherein said composition optionally comprises a lubricant additive.

Claim 83 (new): The lubricant composition of claim 82, wherein said solid lubricant comprises molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, mica, boron nitride, silver sulfate, cadmium chloride, cadmium iodide, cadmium oxide, borax, basic white lead, lead carbonate, lead monoxide, lead iodide, asbestos, talc, zinc oxide, carbon, graphite, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, the Group VIII noble metals, a fluoroalkylene homopolymer or copolymer, a lower alkylene polyolefin homopolymer or co-polymer, a paraffinic hydrocarbon wax, phenanthrene, copper phthalocyanine, or mixtures thereof.

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Claim 84 (new): A lubricant composition of matter comprising a product produced by the process of forming a mixture comprising a superabsorbent polymer and a material for decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water, wherein said material for decreasing friction comprises a phosphate, and wherein said composition optionally comprises a lubricant additive.

Claim 85 (new): The lubricant composition of claim 84, wherein said material for decreasing friction comprises tricresyl phosphate, zinc phosphate, iron phosphate or manganese phosphate, or mixtures thereof.

Claim 86 (new): The lubricant composition of claim 74 wherein said material for decreasing friction comprises a fatty oil, fatty acid, or wax, or mixtures thereof, and wherein said composition optionally comprises a lubricant additive.

Claim 87 (new): The lubricant composition of claim 74 wherein said material for decreasing friction comprises a synthetic oil lubricant, or grease thereof, and wherein said composition optionally comprises a lubricant additive.

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Claim 88 (new): The lubricant composition of claim 74 wherein said material for decreasing friction comprises a soap, and wherein said composition optionally comprises a lubricant additive.

Claim 89 (new): The composition of any one of claims 73-79, and 84-88 wherein said composition is substantially anhydrous.

Claim 90 (new): The composition of any one of claims 73-88 wherein said superabsorbent polymer comprises a polymer of acrylic acid, an acrylic ester, acrylonitrile, acrylamide, co-polymers thereof or mixtures thereof.

Claim 91 (new): The composition of any one of claims 75-88 wherein said lubricant additive comprises an antioxidant, rust inhibitor, antiwear compound, extreme pressure additive, detergent, dispersant, pour point depressant, viscosity-index improver, or foam inhibitor, or mixtures thereof.